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INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION	See Notification	on of Transmittal of International kamination Report (Form PCT/IPEA/416)
FIS920030208 International application No.	International filing date (day/mon	th/year)	Priority date (day/month/year)
PCT/US03/38517 International Patent Classification (IPC)	or national classification and IPC		
IPC(7): B32B 18/00, 31/18, 31/26 and U	5 Cl.: 150/89.12, 207; 420/210		
••	TRUE CORROR ATTON		1
INTERNATIONAL BUSINESS MACH	IINES CORPORATION		
 This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36. 			
2. This REPORT consists of a total of sheets, including this cover sheet.			
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).			
These annexes consist of	a total of sheets.		
3. This report contains indications relating to the following items:			
I Basis of the re	I Basis of the report		
II Priority	II Priority		
III Non-establish	ment of report with regard to novelty, inventive step and industrial applicability		
IV Lack of unity			
V Reasoned stat	atement under Article 35(2) with regard to novelty, inventive step or industrial		
applicability;	citations and explanations supporting such statement		
VII Certain defect	cts in the international application		
VIII Certain observations on the international application			
Date of submission of the demand	Dat	e of completio	n of this report
Date of submission of the demand			
30 June 2005 (30.06.2005)		anuary 2006 (03	5.01.2006)
Name and mailing address of the IPEA/US		horized officer	Mr alan
Mail Stop PCT, Attn: IPEA/ US Commissioner for Patents		lvin Curtis May	es ()
P.O. Box 1450 · Alexandria, Virginia 22313-1450		ephone No. 571	-272-1700
Facsimile No. (571) 273-3201			

International application No.	
PCT/US03/38517	

I.	Basis	of the report
		regard to the elements of the international application:*
		the international application as originally filed.
	図	the description:
		pages 1-22 as originally filed
		pages NONE, filed with the demand pages NONE, filed with the letter of
	5	
		the claims: pages <u>23-25</u> , as originally filed
		pages NONE, as amended (together with any statement) under Article 19
		pages NONE filed with the demand
	57	pages NONE, filed with the letter of
	\bowtie	the drawings:
		pages 1-5 as originally filed pages NONE filed with the demand
		pages NONE , filed with the letter of
		the sequence listing part of the description:
	لــــ	pages NONE, as originally filed
		pages NONE filed with the demand
•	/X1:-*	pages NONE, filed with the letter of regard to the language, all the elements marked above were available or furnished to this Authority in the
۷.	langi	uage in which the international application was filed, unless otherwise indicated under this item.
	Thes	se elements were available or furnished to this Authority in the following language which is:
		the language of a translation furnished for the purposes of international search (under Rule23.1(b)).
		the language of publication of the international application (under Rule 48.3(b)).
		the language of the translation furnished for the purposes of international preliminary examination(under Rules 55.2 and/or 55.3).
3.	. With inter	h regard to any nucleotide and/or amino acid sequence disclosed in the international application, the mational preliminary examination was carried out on the basis of the sequence listing:
		contained in the international application in printed form.
		filed together with the international application in computer readable form.
		furnished subsequently to this Authority in written form.
		furnished subsequently to this Authority in computer readable form.
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.
4		The amendments have resulted in the cancellation of:
	_ 	the description, pages <u>NONE</u>
		the claims, Nos. NONE
		the drawings, sheets/fig NONE
	i. 🗌	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**
1	hic ron	acement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in ort as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

Form PCT/IPEA/409 (Box I) (July 1998)

INTERNATIONAL PRELIMINARY E	EXAMINATION REPORT
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International application No. PCT/US03/38517

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1. STATEMENT			
Novelty (N)	Claims 3-6, 9, 11-13, 15-18, 20 and 22-24	YES	
1.0.0.0, (1.4)	Claims 1, 2, 7, 8, 10, 14, 19, 21 and 25	NO	
	and a second of the second of	YES	
Inventive Step (IS)	Claims 3-6, 9, 11-13, 15-18, 20 and 22-24 Claims 1, 2, 7, 8, 10, 14, 19, 21 and 25		
	Ciallis 1, 2, 7, 0, 40, 47, 12, 24 and 22		
Industrial Applicability (IA)	Claims 1-25		
	Claims NONE	NO	
2. CITATIONS AND EXPLANATIONS Claims 1, 2, 7, 8, 10, 14, 19, 21 and 25 lack novelty under PCT Article 33(2) as being anticipated by Natarajan et al. (US 6,627,020). Natarajan et al. disclose a method of sinter distortion control comprising: providing at least one non-densifying structure 10 which can be single continuous members (continuous non-densifying structures) such as thin strips (tailored shapes) on the kerf area 50 (local peripheral kerf area) between individual product samples on a green sheet having kerf area between product samples (local peripheral kerf area) and kerf area around the periphery of the green sheet (peripheral external kerf area); laminating green sheets; sintering; and separating the non-densifying structure from the product substrates using wet sizing (post sinter sizing) (col. 4-8). Claims 3-6, 9, 11-13, 15-18, 20 and 22-24 meet the criteria set out in PCT Article 33(2)-(3), because the prior art does not teach or fairly suggest providing and placing at least one second continuous non-densifying structure on the external peripheral kerf area, in addition to at least one first continuous non-densifying structure placed on local peripheral kerf area. Claims 1-25 meet the criteria set out in PCT Article 33(4), and thus meet industrial applicability because the subject matter claimed can be made or used in industry. NEW CITATIONS NEW CITATIONS NEW CITATIONS			

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International application No.

PCT/US03/38517

VIII. Certain observations on the international application	
The following observations on the clarity of the claims, description,	and drawings or on the questions whether the claims

I ne following observations on the clarity of the claims, description, and drawings or on the questions whether the claims are fully supported by the description, are made:

Claims 5, 12, 17 and 23 are objected to under PCT Rule 66.2(a)(v) as lacking clarity under PCT Article 6 because claims are indefinite for the following reason(s): the claims claim that zirconia is a metal, however zirconia is not a metal but a ceramic.

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